Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Genetic Webquest

1. Read pages 156-165 in your textbooks.
2. Visit <http://learn.genetics.utah.edu/> explore each section to find the answers to the following questions: Always answer the questions with complete sentences and put the question in the answer.

1. What is DNA?

2. What does DNA stand for?

3. Why is DNA called a blueprint?

4. The “twisted ladder” shape of the DNA molecule is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5. Name the four bases found in a DNA molecule.

6. What is a gene?

7. A mutation in the hemogloblin gene cause what disorder?

8. If you stretched the DNA from a cell out, how long would it be?

9. How many chromosomes are in a human cell?

10. Receptor proteins are responsible for picking up\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

11. What is heredity?

12. Each child inherits a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ set of chromosomes.

13. Draw a small 10 base pair DNA molecule.

14. Define transcription.

15. Define translation.

16. What is special about stem cells?

17. How are somatic stem cells different? What can they turn into?